Application No.: 10/617,707

Amendment Filed December 19, 2005

Response to Office Action of September 19, 2005

AMENDMENTS TO THE CLAIMS

Docket No.: 0649-0911P

1. (Currently Amended) A method of manufacturing a solid-state imaging device comprising the steps of:

forming a plurality of IT-CCDs on a surface of a semiconductor substrate;

bonding a translucent member to the surface of the semiconductor substrate in order to have a gap opposite to each light receiving region of the IT-CCD;

forming an external connecting terminal corresponding to the IT-CCD; and

isolating a bonded member obtained at the bonding step and provided with the external connecting terminal for each of the IT-CCDs, <u>and</u> the isolating <u>step includes</u> <u>separating the translucent member to position a peripheral edge portion of the translucent member onto an inside of a peripheral edge portion of the IT-CCD in such a <u>manner that a surface of the peripheral edge portion of the IT-CCD is exposed away from the translucent member,</u> wherein the external connecting terminal is exposed away from the bonded member.</u>

2. (Original) The method of manufacturing a solid-state imaging device according to Claim 1, wherein the step of bonding a translucent member includes the steps of:

preparing a translucent substrate having a concave portion in a position corresponding to a region in which the IT-CCD is to be formed; and

bonding the translucent substrate to the surface of the semiconductor substrate.

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3. (Previously Presented) A method of manufacturing a solid-state imaging device comprising the steps of:

forming a plurality of IT-CCDs on a surface of a semiconductor substrate;

selectively removing the surface of the semiconductor substrate to surround a light receiving region, thereby forming a protruded portion, a gap being formed between the light receiving region and a translucent member by the protruded portion

bonding the translucent member to the surface of the semiconductor substrate in order to have a gap opposite to each light receiving region of the IT-CCD;

forming an external connecting terminal corresponding to the IT-CCD; and isolating a bonded member obtained at the bonding step and provided with the external connecting terminal for each of the IT-CCDs.

4. (Currently Amended) [[The]] A method of manufacturing a solid-state imaging device according to Claim 1[[,]] comprising the steps of:

forming a plurality of IT-CCDs on a surface of a semiconductor substrate;

wherein prior to the bonding step, the method further comprises selectively removing [[the]] <u>a</u> surface of [[the]] <u>a</u> translucent member to surround a light receiving region, thereby forming a <u>spacer</u>, and <u>spacer</u>;

bonding the translucent member to the surface of the semiconductor substrate in order to have a gap opposite to each light receiving region of the IT-CCD so that wherein at the bonding step[[,]] a gap is formed between the semiconductor substrate

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and the translucent member through the spacer provided to surround the light receiving

region;

forming an external connecting terminal corresponding to the IT-CCD; and

isolating a bonded member obtained at the bonding step and provided with the

external connecting terminal for each of the IT-CCDs, wherein the external connecting

terminal is exposed away from the bonded member.

(Currently Amended) The method of manufacturing a solid-state imaging 5.

device according to any of Claims 1 to 4 3 or 4, wherein the isolating step includes the

step of separating the translucent member to position a peripheral edge portion of the

translucent member onto an inside of a peripheral edge portion of the IT-CCD in such a

manner that [[a]] the surface of a peripheral edge portion of the IT-CCD is exposed

away from the translucent member.

(Previously Presented) The method of manufacturing a solid-state 6.

imaging device according to Claim 3, wherein said step of bonding is performed at a

temperature under 80 degrees C.

(Original) The method of manufacturing a solid-state imaging device 7.

according to Claim 6, wherein, in the bonding step, a room temperature setting

adhesive is utilized for bonding the translucent member to the surface of the

semiconductor substrate.

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8. (Original) The method of manufacturing a solid-state imaging device

according to Claim 6, wherein, in the bonding step, a photo-curing adhesive is utilized

for bonding the translucent member to the surface of the semiconductor substrate.

9. (Original) The method of manufacturing a solid-state imaging device

according to Claim 1 or Claim 2, prior to said step of isolating, further comprising the

step of:

resin shielding for shielding the translucent member in vicinity of the bonding link

with the surface of the semiconductor substrate by a resin so that the external

connecting terminal is exposed.

10. (Currently Amended) The method of manufacturing a solid-state imaging

device according to Claim 3 Claim 9, wherein the resin shielding step is performed at a

temperature under 80 degree <u>degrees</u> C.

11-49. (Cancelled)